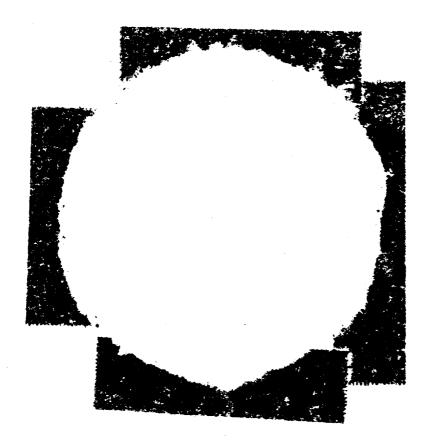
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10/7/56. Le Falten gal, - bet (n 3091).



### Wendweld for from W1895P-

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5	و عل	e mul	. Tu	ech to	a T	pref	0. 龙人	oeale c	mg of	ghtfura.
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						<b>V</b> .				

mapping 15 lae, Prol- V, ~ DATE: 9/10/56 W1366= F- TZB, Loc, VAV From the collecto personal 10ml LØ (Kenneroten) + 0.1ml w30/0. in aerotation on D(0)+Pool.

10ml LØ (Kenneroten) + 0.1ml w30/0. in aerotation on D(0)+Pool.

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10ml LØ (Kenneroten) + 0.1ml w30/0. in aerotation on D(0)+Pool.

10ml LØ (Kenneroten) + 0.1ml w3 10 Prepare T6 and T / phoge stock on W30/0, W1655. 4 pm , loop W3010 m / D, 5 tutes. Spm. 1 loop 7, cr 76 7/12. metry on by + pol. 9/130 frat street an Eft prof. 20 9/14 second atth on B gal. 7/15 Third strankon Kolt prol. 9/16 fourth strait ~D(0) 7/17 Spot on D(U)+ proline for replien tests. 1 st replies 2 mephea D(0) 06) Blac B(lac) Lp+ 71 LØ+76 the rocal after evel nee. 20+ T/ 5 could block LØ+76 N.B. W/366 was not tested as single whomy before use. It is The To the To the stocks used to seare Vi, V6 are o. K. (they are To from EML and TI (W1455) from stock.

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# Prop. of F- prototoph testus

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	w312,	JL X	Y10 S	loc	w32	3 <b>0</b> ,	Seed	strub	~ 5 loe	<b>,</b>
20	N7-	N7-	3	e aris	XIG	(mus	g vi ca Th	e)YA	<b>F</b>	
√ <b>3</b> ₀	Y87	Y/O XAAAS Stub		· 2:	3-3•	7/17	Scen	l Totral	B Ja	
√ ' <b>t</b> o	W/457	KW189 y W145	5 M	7/17 mate	ry Roger had I	atedia.	Noth.	ho (q	W145	otal.
<i>5</i> 90	W3140 W224	29. 3× 418	95	9/17 <b>57</b>	hata	7 ~ ~	with.	Use 22 4	・ 4Fな	stead.
50	W133	KW1891		a w	5-ed 3-2-3-6	atreal	S	luc.	=W3:	238.

rotal Tester T1, 76, P/ 9/20. 10 Tlate 76(2165) P1 (w 3014) on Blac w30140 5+ + w3110 **S** + W1655 5+ Parella pom w 1366 prehed; w1366  $\mathfrak{A}$ R w1485 ~5 0:15. henry 's PIKC on the PI W 3/46 her streets male on 40 with stick 76 & P/hc. 7/23. Colony of w1485 remeter to T6? (W/655) Tested O agand steel 76 ad 76 (4/655). It is lysed by T61 EML stock). 76? (W655) W1485 Lypia W1485R hysis Legeles Moen 76 hysates modeling 76 (EML) on B/1, W1485 , Certification of the contraction of the ownget in big Teals of TI, to above some sent of museume and T6 (1485) are o.15. my conversion with T6 from EML and T/ (1485) from stuck on W136612 7/ B/6, B/1, W1485. W1366 mande resultant to To 1366 mode resulted to 76" (w1655) yester stuility check

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	Physe	auch s	on Blue	• •						
				Pile		P1 (W301	4)			
· · · · · ·			T1 (148	-	T/ (B/	1	•			
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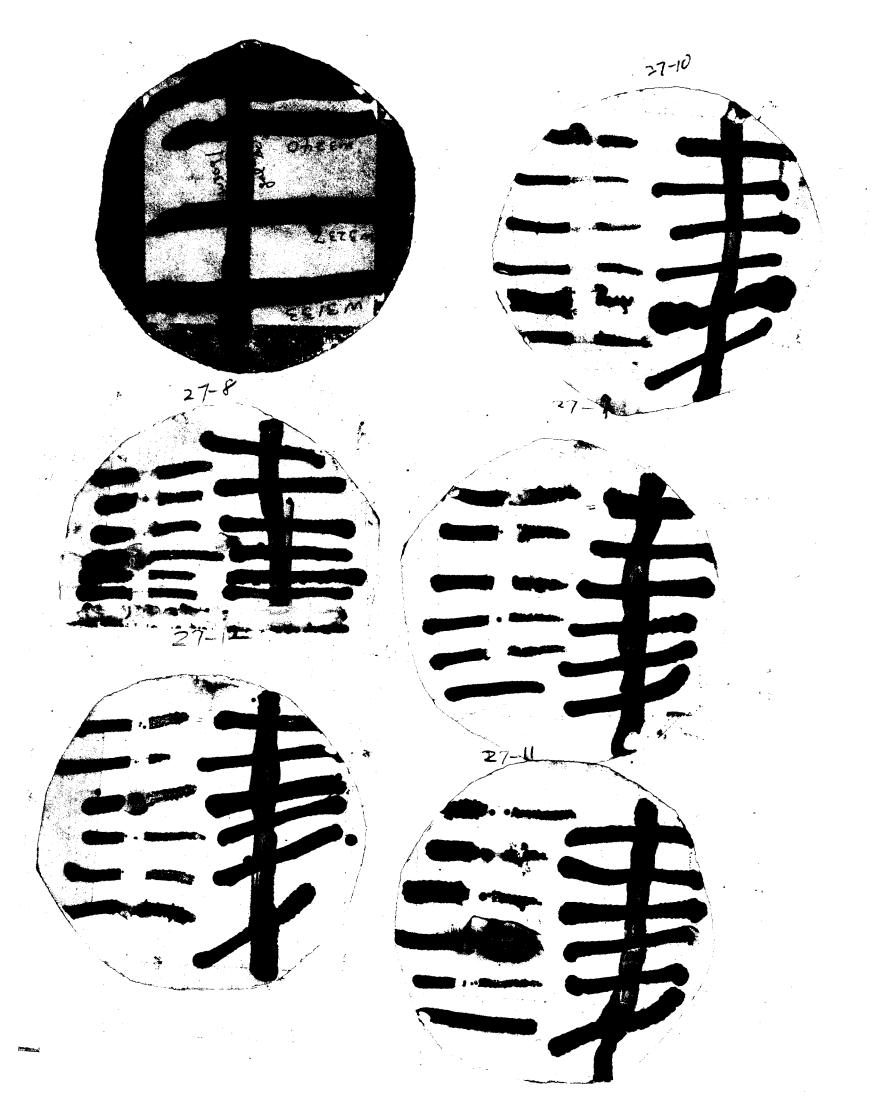
agar layer plate

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	2 ml	. 2.92	to your.	reger +	2 drys	cers+	1 drap	· FI.		
		W148	5 + PI&	c						
	2_		5 + (W301				-			
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old plate 25 ml.				i i		0 0 0				•
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F: 76 (B/1)

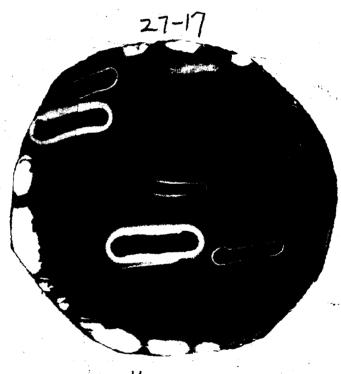
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	1	2	3	4	5	6	7	8	9	10
plate			<i>+=1</i>	ysis	0 = plate	no lys	ia			
	W3229	+	W3133	+	<del></del>	127 ,	W3159	+		
	w3120		w3230	+		10 3 35 7	u 30 fg	+		
	343	+	w3/34	+	w1441	しもん	W3148	+		
10	W1950		W3157	+	w1945	0 to 2	w315Z	+		
	W1951	+	W3158	l .	in 1948	1 AT 1/2	w3174	+		
plate 3	w1949	+	w3156	+ "	u 3/64	+	63112	+		
	w3146	Pasiety	W3175	Kesister			w 20043	+		
20	w1946	+	W3153	+	W3/40	+	W2244	+		
20	w3237	+					4327	+		
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plates			W3238							
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	<b>,</b>	- ~ ·								
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w3089	Wirth	0	0	0		1~3/46	W3156			
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				<b>¥</b> /	W3127	and and	-	<i>j</i>		
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			w3229	0	++	+	4+	++	++	五	<b>*</b>
						w3128	w32 <b>Z</b>				·
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	20	plate	8		T6	(B/1)	plote 9		•	te/0	
		1	1	76	7.00	w811	76		w\$11		-
<u> </u>		w3133 w3230	+		w3089	++		w3153	+ (0)		
					w3/48			w3237	06		-
		W3/34			w3152	, <del>-  </del>		w3240	- ・ シゴ	-	
	30	W3157			43174	-		W3172	+0	<i>!</i>	
	)	W3158			w 3156	-		W2243	+0		
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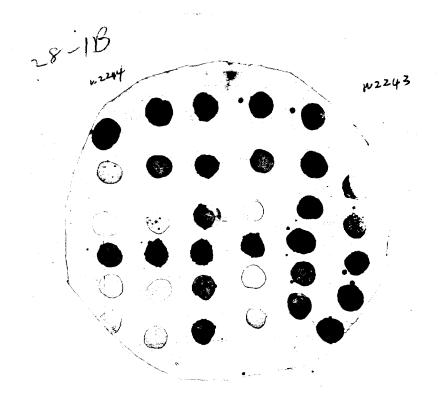


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	43089	[	w3112			+				
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### Test N13- Il against amoris lue loci on M luc autet for het

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#### Preparation of stocks

The plan of this study is to prepare pairs of stocks containing the same lac-allele, the initial member to carry Cavalli's Hfr, M-, and a UV-induced lac-, the other to be a lac- F- prototroph derived from the first by recombination with YlO. For chromosome mapping, each Hfr stock will be modified by selection of  $V_0^r$ , a marker closely linked on the left of lac-1. In future, the Hfr stock will also carry P-, one locus for which is reported to lie between lac-1 and  $V_1^r$  (Fried, m.s.; her data fit equally well the order P  $V_0$  lac-1). An Hfr P- M- stock was obtained by UV irradiation of W1895 and is being tested to determine the location of P-. Preliminary tests indicate the order P  $V_0^r$  lac or P  $V_0^r$  lac P.

Pending the development of the P- stock, F- prototrophs and Hfr M- P/ stocks were prepared for the genes  $lac_1^{v87}$ ,  $lac_1^{v953}$ ,  $lac_1^{v12}$ ,  $lac_2^{v45}$ ,  $lac_1^{v45}$ ,  $lac_1^{v45}$ ,  $lac_1^{v45}$ ,  $lac_1^{v45}$ , and for 12 lac- derivatives of W1995 (1940-51). In addition, F- or F/ prototrophs were prepared for  $lac_3^{v108}$ ,  $lac_5^{v145}$ ,  $lac_7^{v133}$ , and lac (Table 1 and Fig. 1).

In the course of this work, the lac- stocks were isolated which differed in recombination and reversion patterns from the lac- parent.

W3159 is a stable isolate from a cross of Y10 with the very highly mutable

W1951, and fails to recombine with W1951 and all but one of the apparently single-step lac-1 mutants. W3229 is a spontaneous derivative of W3120

accidentally isolated in serial transfer. It is much more stable than its lacy ancestors and fails to recombine with any of the recognized lac-1 mutants. At present it is the means by which lac-1 is identified, since the lac-1 pseudoalleles have sufficiently high recombination rates to be indistinguishable from unlinked loci in streak tests. W3146 was isolated from a cross of W3129 by W112 in a attempt to introduce lack into an Hfr stock; it recombines with W112 and all tested lac-1 mutants and is almost certainly

not a derivative of W112, since it remains S<sup>r</sup> gal- V<sup>r</sup><sub>6</sub> like W3129. (Of the stocks in table 1, the Hfr lac<sup>W112</sup> is the only one not yet prepared.) The origin of the two-step mutants W3229 and W3159 raises questions about the nature and frequency of spontaneous changes in recombination pattern of lac- mutants.

#### Streak allelism tests

Cross-streaks of Hfr M- lac- and F- lac- prototrophs on M lac plates are convenient tests for allelism, but their interpretation, although clear in most cases, is in others made difficult by too frequent lac/ reversions, especially when they occur in the M- line, and by the relatively bw fertility of 3H3, W3164, and W3140. Tests with highly fertile Hfr stocks have been unambiguous.

The lac- stocks tested fall into two groups. The majority fail to recombine with W3229, and are therefore designated lac-1 (Table 2). Of these Y87, Y53, W1950, and W1951 appear to be allelic, but may be separated by their reversion rates, which are in the order Y53 < Y87 < W1950 = W1951 when compared as prototrophs. The latter two stocks are exceptionally revertible and are probably identical, as they were isolated in the same experiment. Similarly, W1948 and W1949 have not been distinguished by recombination and revertibility tests. All other apparently single-step lac-1 mutants recombine with one another. Five lac- genes remain unclassified with respect to locus, since they recombine with lac<sub>1</sub> 1 lac-2, 3,4,5, 7, and lac 128, as well as with each other. The two recently obtained lac- from W3236 have not been adequately tested. With chromosome mapping tests, some of these unclassified genes will probably be found to be pseudoallelic with known loci.

#### Intensive allelism tests

Quantitative recombination tests have been deferred until  $V_0^{\mathbf{r}}$  P- stocks are available. A few intensive allelism tests were carried out on material at hand, without re-isolation of stocks, so that reversions

in the agar stabs over varying time intervals were confounded with unavoidable reversions in the Penassay broths in which the cultures were grown up and on the M lac plates on which they were tested. Colonies were counted at 24 hrs. to minimize reversions on the plates. Despite the crudeness of these tests, they are of interest in confirming the cross-streak tests and providing a rough measure of reversion rates (Table 3).

#### <u> W3128 lac- Hist- F/</u>

This stock was received from Borek as a questionable double mutant. Hist  $\neq$  reversions on D(0) remain lac. Lac- prototrophs were obtained from a cross with W1995. Both hist- and hist / were isolated from lac/ reversions on B lac. All the evidence is consistent with independent origin of histand lac-, with hist/ reversions in some lac/ papillae.

#### Persistent diplosds

From H1  $lac_{\nu}^{\nu}$  colonies were isolated which carried Het, as shown by lacv colonies in the cross with W1940. The lac- parents have been stabbed as N13-2 and the lacvidiploids as N13-1.

An attempt was made to test allelism of the lac- segregants of H271, a diploid lac/ which segregates stable and mutable lac-. The original constitution of this stock was lacy 53/lac which was lac- in phenotype. Unfortunately, the y53 Hfr tester is of low fertility and the w112 tester has not been synthesized, so a conclusive analysis has not yet been made.

### Interaction of lac gal- and lac gal/

E. M. Lederberg reported that cross-streaks of lac, gal/ and lac\_- gal- gave a bluish color after 48 hrs. on B lac, but that other lac- loci are negative or give a less intense color. This has been confirmed, the color reaction being much clearer on paper prints than on the agar plate. A gal\_- lac/ tester should be tried. Cells lysed by To on B lac agar give a blue reaction, but I was not able to differentiate lac-1 from other loci by this method. In fermentation tests on EMB agar, read at 24 hrs.,

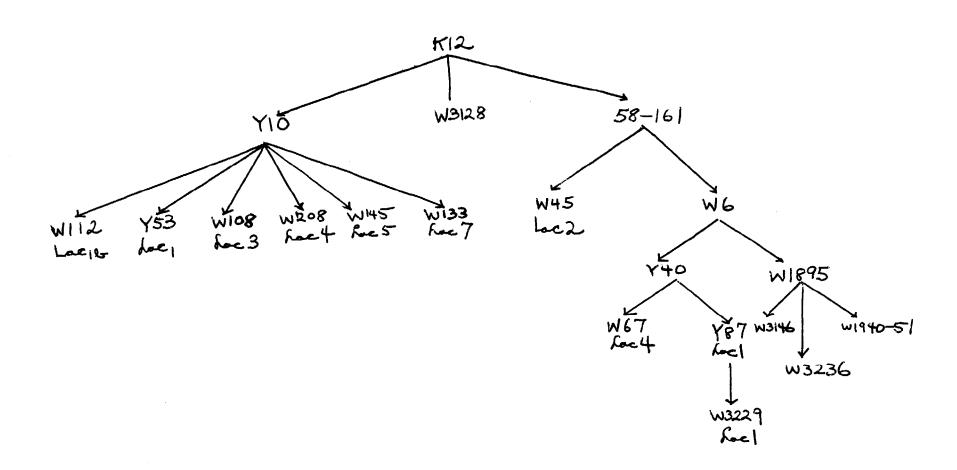
all the lac- prototrophs in this study (with the exception of the mal-1 and gal-2 stocks) behaved as follows:

Locus	mal	mtl	gal	zylose
2 and 3240	slow	slow	<b>≠</b>	+
3 and 5	0	0	very slow	+
all others	+	<del>/</del>	<i></i>	<i></i>

#### Pl transduction

Attempts to grow high titer Pl in L broth were unsuccessful on a variety of lp<sup>S</sup> stocks. The Swanstrom- Adams confluent lysis plate method is now being tried. As soon as good lysates are made, the transduction system will be explored.

## Fig. 1 Pedigine of important stocks



	Source	Locus	Hfr M-		F- protot	roph
/	y87	1	W3120		W3230	N23
	y53	1	3H3 ind. Hfr	(JL)	<b>W</b> 3134	N2
V	wll2	1	W3221 M+	N6	W3089 mal-	
/	w1941	1	W1941		W3148	N9
/	w1945	ı	W1945		W3152	Ħ
V	w1946	1	W1946		W3153	; <b>W</b>
	w1948	ı	<b>W</b> 1948		W3174	W
/	w1949	1	<b>W</b> 1949		W3156	*
	w19 <i>5</i> 0	1	W1950		W3157	*
	w1951	1	<b>W1</b> 951		<b>W315</b> 8	Ħ
V	w3146	1	W3146 gal 7 V6	s <sup>r</sup> N6	₩3175 <b>V</b> ₹	м6
	w3159	1	•		<b>W31</b> 59	N9
	w32 <b>29</b>	1	W3229		W3133	Nl
/	w45	2	W3164 S <sup>r</sup>	N5	W3112	
	<b>w10</b> 8	3			W2243	
	<b>w</b> 67	4	<b>W</b> 3140 <b>S</b> <sup>r</sup>	Nζ	, ₩2244 <b>F</b> /	
~	w208	4		-	<b>W</b> 3127	
	w145	5			₩2245 F <b>/</b>	
	w133	7		Ů.	W3238	N23
	w3128			0	∘ ₩ <b>3</b> 239 F/	N7
	w1940			Ü.	W3147°	N9
	w1942			0.0	w3149	Ħ
	w1943			<b>o</b>	° ₩3215	*
	w1944		•		W3151	Ħ
	w1947		Hfr M- P-	• • ()	<b>° W</b> 3154	¥
	w3237		W3237		* 7	• Yes
	w3240		W3240		$\xi_{\mu}$	

Table 2. Lac recombination pattern

Stocks recombine to give lac if the corresponding bard do not overlap.

	3120 3134 3157 3158		
y87, y53, v1950,1	3120 3134 3154,3158		
wll2	3089		
w1941	3148 3148	-	
w1945		3152	
w1948,9		3174 3156 3174 3156	
w3146			3175 3175
w1946		•	3153
w3159	3154	3159	
w3229	3/33	3133	

#### Table 3 Allelism tests

Exper. 1. 0.1 ml. F- and 0.1 ml. Hfr from overnight cultures into penassay. After 4 hrs. plate 0.1 of mix on M lac.

F-		Hfr M-	
	W3229	3H3	W1941
W3133	0	0	0
W3134	22	23	>1000
W3148	ı	13	0
<b>W3</b> 089	0		> 1000

Exper. 2. Mix centrifuged, washed with saline, concentrated in saline 1/10. 1.0 ml. of concentrate on M lac.

	W3229	<b>W</b> 1941
W3133	3	2
<b>W3</b> 089	0	-

Exper. 3. 0.1 ml. F- and 0.1 ml. Hfr in 10 ml. penassay. After 3 hrs. plate 0.1 ml. on M lac.

F-	no Hfr	alleli	c Hfr	Hfr = W3229
W3133	0	W3229	0	0
W3134	44	3H3	52	50
<b>W3</b> 089	0			0
W3148	0	<b>W1</b> 941	O	0
W3152	0	<b>W</b> 1945	0	0
W3153	14	<b>W1946</b>	15	n
W3174	0	<b>W1948</b>	0	0
W3156	0	<b>W</b> 1949	0	0
W3157	26400	<b>W</b> 1950	14200	15400
W3158	29000	W1951	17000	23200
W3159	0	W1951	<b>3</b> 2	0
W3175	0	W3146	0	0

Table 3 (cont.)

Exper. 4. 0.1 ml. F- and 6.1 ml. Hfr in 10 ml. penassay. After 24 hrs. plate 0.1 ml. on M lac.

F-	no Hfr	allelic Hfr
W3127	32	W3140 153
W3112	0	<b>W</b> 3164 0
W3151	0	<b>W1</b> 944 0
W3154	1	<b>W</b> 1947 1
W3147	3	W1940 2
<b>W</b> 3149	1	<b>W</b> 1942 0
W3150	1	<b>»</b> 0
<b>W</b> 3155	0	<b>*</b> 0

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## Summary of experiments 21, 32, and 37 mapping D, V6, lace, Prol, V1, (TL).

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	37B	52/2	4					232		
A-loc,	2.1	35/14	/ /		· ·			248		
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